

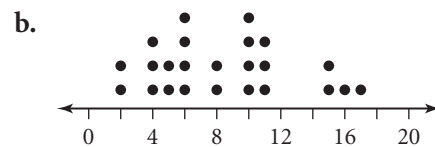
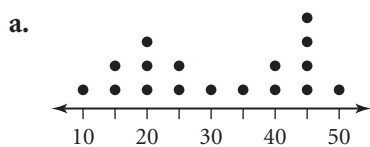
# Lesson 1.3 • Five-Number Summaries and Box Plots

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

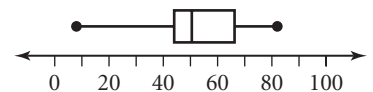
1. Find the five-number summary for each data set.

- a. {37, 44, 5, 8, 20, 11, 14}                      b. {10, 1, 3, 4, 30, 4, 20, 22, 10, 25, 30}
- c. {25, 27, 33, 14, 31, 16, 22, 24, 43, 25, 37, 39, 42}
- d. {35, 17, 2, 32, 47, 13, 22, 7, 21, 55, 5, 52, 34, 41, 25, 8}

2. Circle the points that represent the five-number summary values in the dot plots below. If two data points are needed to calculate the median, first quartile, or third quartile, draw a circle around both points. List the five-number summary values for each plot.



3. Which data set matches this box plot? (More than one answer may be correct.)



- a. {70.2, 52, 24.5, 61, 77, 26, 9, 51, 64, 28, 54, 28}
- b. {59, 47, 79, 8, 65, 42, 23, 70, 82, 62, 48, 42, 52, 67.5, 49, 46}
- c. {82, 36, 42, 8, 61, 50}

4. Create a data set with the five-number summary 6, 10, 12, 15, 20 that contains each number of values.

- a. 11    b. 12

5. This table shows the number of bachelor's degrees earned in various fields at a private university for 1994 and 2004.

**Bachelor's Degrees Awarded**

Degree field	1994	2004	Degree field	1994	2004
Architecture	76	78	English literature	129	143
Biological sciences	158	172	Law	18	29
Business and management	410	422	Mathematics	62	65
Computer science	132	205	Philosophy	43	52
Cultural studies	25	46	Physical sciences	107	110
Education	247	261	Visual and performing arts	154	141
Engineering	351	370			

- a. Give the five-number summaries and the mean for each data set.
- b. Create a box plot for each data set on the same number line.